

**Notice of Allowability**

Application No.

10/506,389

Applicant(s)

BROUWER, FRANK BASTIAAN

Examiner

Perez M. Angelica

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview held on 02/01/2008.
2. ☒ The allowed claim(s) is/are 15 and 20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 200 80 304
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 15 and 20 are allowed.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Roger Burleigh (Reg. No. 40542) on February 11, 2008.

The application has been amended as follows:

In the Claims:

Claims 11-14 and 16-19 have been cancelled.

**(END OF AMENDMENT)**

The above changes have been made in order to place the application in condition for allowance.

**Reasons for Allowance**

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 15, the prior art of record teaches of an apparatus for determining a speed indication signal indicating a speed of a wireless mobile telecommunication device relative to the apparatus, wherein said apparatus determines the speed indication signal from a sequence of transmit power control commands sent

by the wireless mobile telecommunication device to an access point in a wireless telecommunication network for controlling, in use, a transmit power of a radio signal transmitted by the access point to said wireless mobile telecommunication device, wherein the apparatus comprises: a memory for storing said sequence of transmit power control commands; a logical filter circuit for determining a radio signal strength minimum in the radio signal at a location of the mobile telecommunication device by detecting if a predetermined number of consecutive transmit power control commands from said sequence of transmit power control commands each comprise either an 'up' or 'down' transmit power control command; a speed information control device for providing a speed estimation signal for said wireless mobile telecommunication device; and a Doppler frequency measurement device for determining a Doppler speed signal for said wireless mobile telecommunication device, said apparatus being adapted to provide said speed estimation signal in dependence on said speed indication signal for speeds of said wireless mobile telecommunication device below a predetermined threshold and on said Doppler speed signal for speeds above said predetermined threshold.

The prior art of record fails to teach where the speed information control device comprises a speed tuning device, the speed tuning device operative to perform the steps of: determining a tuning value, the tuning value being a division of the Doppler speed signal over said speed-indication signal, the tuning value being filtered with a long-time constant; and providing, in dependence of a predetermined threshold ( $V_{th}$ ), for determining of the speed estimation signal: speed-related information, in

dependence of the tuning value, at speeds below said predetermined threshold ( $V_{th}$ ); and a tuned Doppler measurement signal at speeds above the predetermined threshold ( $V_{th}$ ), the tuned Doppler measurement signal being the Doppler measurement signal multiplied by said tuning value.

Regarding claim 20, the prior art of record teaches of a method for determining a speed indication signal indicating a speed of a wireless mobile telecommunication device relative to a stationary wireless access point, the method comprising the steps of: determining the speed indication signal from a sequence of transmit power control commands sent by the wireless mobile telecommunication device to the access point for controlling, in use, a transmit power of a radio signal transmitted by the access point to the wireless mobile telecommunication device, where the step of determining comprises the steps of: storing information related to at least a portion of the sequence of transmit power control commands; and, A method for determining a speed indication signal indicating a speed of a wireless mobile telecommunication device relative to a stationary wireless access point, the method comprising the steps of: determining the speed indication signal from a sequence of transmit power control commands sent by the wireless mobile telecommunication device to the access point for controlling, in use, a transmit power of a radio signal transmitted by said access point to the wireless mobile telecommunication device, where the step of determining the speed indication comprises the steps of: storing information related to at least a portion of the sequence of transmit power control commands; and, determining a radio signal strength minimum in the radio signal at a location of the mobile telecommunication device by detecting if a

predetermined number of consecutive transmit power control commands from the sequence of transmit power control commands each comprise either an 'up' or 'down' transmit power control command; determining a Doppler speed signal for the wireless mobile telecommunication device~ providing the speed estimation signal in dependence on said speed indication signal for speeds of said wireless mobile telecommunication device below a predetermined threshold and on said Doppler speed signal for speeds above the predetermined threshold.

The prior art of record fails to teach of determining a tuning value for a speed information control device, the tuning value being a division of the Doppler speed signal over the speed-indication signal, the tuning value being filtered with a long-time constant; and, providing, in dependence of a predetermined threshold ( $V_{th}$ ), for determining of the speed estimation signal: speed-related information, in dependence of the tuning value, at speeds below the predetermined threshold ( $V_t$ ); and, a tuned Doppler measurement signal at speeds above said predetermined threshold ( $V_{th}$ ), the tuned Doppler measurement signal being the Doppler measurement signal multiplied by the tuning value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 2:30 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571) 272-4177. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either the PAIR or Public PAIR. Status information for unpublished applications is available through the Private PAIR only. For more information about the pair system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

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Angelica Perez  
Examiner



MATTHEW ANDERSON  
SUPERVISORY PATENT EXAMINER

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February 2, 2008